CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP.

09th March 2016

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Wet Mix Macadam supplied by you, for the work of **'Providing Pot Hole filling in Someshwaranagara and Mathrulayout in Ward No. 04.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Ramanjee

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TEST REPORT

TEST ON AGGREGATES ('AIV' & Combined Flakiness & Elongation Index)

Wet Mix Macadam

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Providing Pot Hole filling in Someshwaranagara and Mathrulayout in Ward No. 04.
Agency of the Name	Sri.Kishor Kumar M.
Date of Testing	09/03/2016
Reference	**MORTH Table 400-10**

Sample No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	20.9	21.2	Satisfactory (As per MORTH for WMM, Maximum allowed AIV is 30 %)
2	21.5		

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Remarks
Flakiness Index	12.2	25.7	Satisfactory (As per MORTH for WMM, Maximum allowed 'C-F&E' is 30 %)
Elongation Index	13.5		

Note:

1.The results relate only to the items tested.

2.Report shall not be reproduced except in full, without the written approval of the lab.

3.Any correction invalidates this report.

4.The results are based on the test conducted on samples supplied by the client.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Providing Pot Hole filling in Someshwaranagara and Mathrulayout in Ward No. 04.
Name of the Agency	Sri. Kishor Kumar M.
Date of Testing	09/03/2016
Technical Reference	MORTH Table 400-11

IS Sieve Designation (mm)	% By Weight Passing IS Sieve	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	Satisfy the Requirements
45	95-100	98.6	
22.4	60-80	73.5	
11.2	40-60	52.1	
4.75	25-40	32.8	
2.36	15-30	24.4	
0.6	8-22	16.8	
0.075	0-8	6.5	

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(KHUSHBOO L.)
Quality Manager

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T-2654

To,

Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP.

30th March 2016

Dear Sir,

Sub: Testing of Bituminous Concrete.

As requested, tests on physical properties were carried out for the Bituminous Concrete supplied by you, for the work of **'Providing Pot Hole filling in Someshwaranagara and Mathrulayout in Ward No. 04.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Ram Sanj REV AE

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TEST REPORT

TEST ON DETERMINATION OF BITUMEN CONTENT ON BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Providing Pot Hole filling in Someshwaranagara and Mathrulayout in Ward No. 04.
Name of Agency	Sri. Kishor Kumar M.
Date of Testing	30/03/2016

A)

Sl. No.	Test	Test Method	Technical Reference
1	Extraction of mineral aggregate	Test Method A (Centrifuge Method)	ASTM: D2172/ D2172M-11
2	Determination of amount of mineral matter/fines in the extract	Ashing Method	

B)

Specification: As Per MORTH (4th Revision) Table 500-18, Bitumen Content for BC Grade-2 is 5% to 7%

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, W_1 g	2000.00
2	Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	1875.30
3	Weight of mineral matter in the total volume of extract (by ashing), W_3 g	11.80
4	Total weight of aggregate in the bituminous mixture, W_4 g = (W_2 +W_3) g	1887.10
5	Total weight of Bitumen extracted from the mixture, W_5 g = (W_1-W_4) g	112.90
6	Bitumen content in %, (W_5/W_1) %	5.65

Remarks	**Satisfies the requirement.**

Note:

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TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Providing Pot Hole filling in Someshwaranagara and Mathrulayout in Ward No. 04.
Name of Agency	Sri. Kishor Kumar M.
Date of Testing	30/03/2016
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirements**
13.2	79-100	**98.6**	
9.5	70-88	**82.1**	
4.75	53-71	**63.5**	
2.36	42-58	**48.4**	
1.18	34-48	**39.2**	
0.6	26-38	**32.3**	
0.3	18-28	**24.1**	
0.15	12-20	**16.3**	
0.075	4-10	**7.2**	

Note:

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TEST REPORT

TEST ON AGGREGATES ('AIV' & Combined Flakiness & Elongation Index)

Bituminous Concrete (BC)

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Providing Pot Hole filling in Someshwaranagara and Mathrulayout in Ward No. 04.
Name of Agency	Sri. Kishor Kumar M.
Date of Testing	30/03/2016
Reference	MORTH Table 500-17.

Sl. No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	21.2	21.8	Satisfactory (As per MORTH for BC, Maximum allowed AIV is 24 %)
2	22.3		

Test	Result in %	Combined Flekiness & Elongation Index 'C-F&E' in %	Remarks
Flakiness Index	11.8	24.4	Satisfactory (As per MORTH for BC, Maximum allowed 'C-F&E' is 30 %)
Elongation Index	12.6		

Note:

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(KHUSHBOO L.)
Quality Manager

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TEST REPORT

STRIPPING TEST OF ROAD AGGREGATES

Bituminous Concrete (BC)

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Providing Pot Hole filling in Someshwaranagara and Mathrulayout in Ward No. 04.
Name of Agency	Sri. Kishor Kumar M.
Date of Testing	30/03/2016

Method of Test	Observation No.	Uncovered Area/Stripping in %	Average Stripping Value in %	As Per Morth Table 500-17	Remarks
IS 6241-1971 (Reaffirmed 2003)	1	3.78	3.71	5 % Maximum	Satisfactory
	2	3.69			
	3	3.66			

Note:

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Khushboo

(KHUSHBOO L.)
Quality Manager

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